

ACKNOWLEDGMENT OF COMPLETION REPORT

FOR

**LYONDELLBASELL FIRE
12000 LAWNGDALE STREET AT HIGHWAY 225
HOUSTON, HARRIS COUNTY, TEXAS**

Prepared for

U.S. Environmental Protection Agency

Linda Carter, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. TO-0001-10-05-02
W.O. No. 20406.012.001.0556.01
NRC No: 940573
FPN: N/A
CERCLIS ID: N/A
EPA OSC: Adam Adams
START-3 PTL: Derrick Cobb

Submitted by

Weston Solutions, Inc.
Robert Beck, VP, P.E., Program Manager
70 NE Loop 410, Suite 600
San Antonio, Texas 78216
(210) 308-4300

08 June 2010

ACKNOWLEDGMENT OF COMPLETION REPORT

1. PROJECT IDENTIFICATION

Date: 08 June 2010

To: Adam Adams, On-scene Coordinator (OSC)
U.S. Environmental Protection Agency (EPA)
Region 6, Prevention and Response Branch

Through: Linda Carter, Project Officer (PO)
EPA Region 6, Program Management Branch

Through: Robert Beck, VP, P.E., Weston Solutions, Inc. (WESTON®)
EPA Region 6, Superfund Technical Assessment and Response Team (START-3)
Program Manager

From: Derrick Cobb, WESTON
EPA Region 6, START-3 Project Team Leader

Subject: Acknowledgment of Completion Report: LyondellBasell Fire
12000 Lawndale Street at Highway 225, Houston, Harris County, Texas
Contract No. EP-W-06-042
TDD No. TO-0001-10-05-02
W.O. No. 20406.012.001.0556.01
NRC No: 940573
FPN: N/A
CERCLIS ID: N/A
Latitude: 29.708239° North
Longitude: 95.244405° West

Geographic coordinates of the LyondellBasell Fire were determined by START-3 members using an online tool, Google Earth®.

2. SITE BACKGROUND

On 17 May 2010, an explosion and fire occurred at the LyondellBasell refinery located at 12000 Lawndale in Houston, Harris County, Texas. The incident occurred at approximately 1420 hours in the 536 Crude Processing Unit located within the facility. The crude processing unit receives crude oil to begin the upgrade process to gasoline. At the time of the fire, the unit was processing vacuum gas oil. As a result of the fire, approximately 500 pounds (lbs) of sulfur dioxide was

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released. A representative from LyondellBasell, the Potentially Responsible Party (PRP), notified the National Response Center (NRC No. 940573) at 2107 hours Eastern Standard Time after the PRP had determined the sulfur dioxide release had exceeded reportable quantities. A copy of the NRC report is provided as Attachment A.

3. SUMMARY OF ACTIONS

On 17 May 2010, the U.S. Environmental Protection Agency Region 6 Prevention and Response Branch (EPA-PRB) was notified of the explosion and fire at the LyondellBasell facility through the local Houston news media. At approximately 1515 hours on 17 May 2010, EPA-PRB On-scene Coordinator (OSC) Adam Adams notified WESTON, the EPA Region 6 START-3 contractor, to perform a Tier 1 response. START-3 was activated to collect information concerning the incident and document the actions taken by the PRP. START-3 mobilized to the incident site and arrived at 1645 hours on 17 May 2010. START-3 met with representatives of LyondellBasell to discuss the incident and emergency response actions taken. During the meeting, the PRP reported that LyondellBasell activated emergency response personnel to fight the fire and initiated a shelter in place for facility personnel. LyondellBasell firefighters were able to extinguish the fire by 1530 hours. Perimeter air monitoring was conducted by facility personnel for volatile organic compounds (VOCs) at the perimeter of the facility. Based on air monitoring results, no constituents of concern were detected above background. No injuries were reported as a result of the explosion and fire. An "All Clear" alert was issued at approximately 1935 hours allowing facility personnel to return to normal operating procedures. According to the PRP, the firefighting water was contained within the concrete secondary containment area and/or the surrounding stormwater system, and the firefighting water will be processed through the normal operating procedures and disposed of at Gulf Coast Waste Disposal Authority.

At 1945 hours, START-3 briefed EPA OSC Adams on the current site status. EPA OSC Adams determined that the incident was stabilized, and he released START-3 from the incident location at that time. A copy of the START-3 site logbook is provided as Attachment B.

EPA OSC Adams conducted a site visit on 18 May 2010 to meet with facility personnel to discuss the explosion and subsequent release of sulfur dioxide. EPA OSC Adams confirmed the details of the

explosion and fire with the PRP along with future remediation plans. At the time of this reporting, the cause of the incident remains under investigation.

This final report was prepared as part of the requirements of the Technical Direction Document (TDD) No. TO-0001-10-05-02 and serves as documentation of work completed to date.

4. LIST OF ATTACHMENTS

A. NRC Report No. 940573

B. START-3 Site Logbook

C. Pollution Report (POLREP)

D. TDD No. TO-0001-10-05-02

☐

The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

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ATTACHMENT A

NRC REPORT NO. 940573

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 940573

INCIDENT DESCRIPTION

*Report taken at 21:07 on 17-MAY-10

Incident Type: FIXED

Incident Cause: UNKNOWN

Affected Area:

The incident occurred on 17-MAY-10 at 14:30 local time.

Affected Medium: AIR

SUSPECTED RESPONSIBLE PARTY

Organization: HOUSTON REFINERY
HOUSTON, TX 77017

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

12000 LAWN DALE AVE County: HARRIS

City: HOUSTON State: TX Zip: 77017

NONE

RELEASED MATERIAL(S)

CHRIS Code: SFD Official Material Name: SULFUR DIOXIDE

Also Known As:

Qty Released: 500 POUND(S)

DESCRIPTION OF INCIDENT

CALLER STATED THAT THERE WAS A RELEASE OF 500 POUNDS OF SULFUR DIOXIDE DUE TO A FIRE WHICH WAS EXTINGUISHED AT 1530. THE CAUSE IS UNDER INVESTIGATION.

INCIDENT DETAILS

Package: N/A

Building ID:

Type of Fixed Object: REFINERY

Power Generating Facility: NO

Generating Capacity:

Type of Fuel:

NPDES:

NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: YES Fire Extinguished: YES

INJURIES: NO Hospitalized: Empl/Crew: Passenger:

FATALITIES: NO Empl/Crew: Passenger: Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	N		Major Artery: N
Waterway:	N		
Track:	N		

Passengers Transferred: NO
Environmental Impact: UNKNOWN
Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

INVESTIGATION UNDERWAY.
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: CLEAR, 80°F

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE
State/Local: TCEQ, EPA
State/Local On Scene: NONE
State Agency Number: NONE

NOTIFICATIONS BY NRC

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
17-MAY-10 21:13
U.S. EPA VI (MAIN OFFICE)
17-MAY-10 21:15
USCG NATIONAL COMMAND CENTER (MAIN OFFICE)
17-MAY-10 21:16
JFO-LA (COMMAND CENTER)
17-MAY-10 21:13
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
17-MAY-10 21:13
NOAA RPTS FOR TX (MAIN OFFICE)
17-MAY-10 21:13
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
17-MAY-10 21:16
SECTOR HOUSTON-GALVESTON (COMMAND CENTER)
17-MAY-10 21:27
TCEQ (MAIN OFFICE)
17-MAY-10 21:13
TX GENERAL LAND OFFICE (MAIN OFFICE)
17-MAY-10 21:13
TX GENERAL LAND OFFICE (TXGLO REGION 2)
17-MAY-10 21:13
TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)
17-MAY-10 21:13

ADDITIONAL INFORMATION

CALLER HAD NO ADDITIONAL INFORMATION.

*** END INCIDENT REPORT # 940573 ***

ATTACHMENT B

START-3 SITE LOGBOOK

LYONDELLBASELL FIRE

TDD- TO-0001-10-05-02



"Rite in the Rain"®

ALL-WEATHER

JOURNAL

No. 391

12000 LAWNDALE

HOUSTON, TX. 77252

W.O. # 20406.012.001.0556.01

TDD-70-0001-10-05-02

20406.012.001.0556.01

5/17/10

LYONDELLBASELL FIRE

1515 EPA On-Scene Coordinator Adam Adams
activates START to respond to the —
LyondellBasell Facility located at —
12000 Lawndale Houston, Texas. —
Initial Reports indicate an explosion
and fire at the facility. —

1525 START mobilizes from Western Houston
Office to the warehouse to pick-up —
equipment for the response. —

1540 START arrives at the warehouse to —
mobilize equipment for the response. —

1550 Due to second response request —
START-Cobb will mobilize to the —
Houston R2 will mobilize to second
response. —

1600 START Cobb departs the warehouse
for the site. —

1645 START-Cobb signs-in at the —
LyondellBasell Administration —
Building. —

1650 START-Cobb takes the Refinery —
Specific Safety Training Video. —

1720 START-Cobb completes the training
video. Meets with Mike Godfrey

D LCU

TDD-70-0001-10-05-02

20406.012.001.0556.01

5/17/2010

LYONDELLBASELL FIRE

(LyondellBasell Representative) to
discuss the event. —

Fire started at approximately 1420 in
Unit 536 (Crude Processing Unit). The
material involved in the released is —
believed to be Vacuum Gas Oil. —

LyondellBasell issued a shelter in place
for all plant personnel as a precaution.

Plant personnel conducted perimeter
air monitoring and did not detect
any constituents above background.

All fire fighting material/water was
contained on-site with no off-site —
release. The fire fighting run-off —
will be treated and disposed of —

following normal operating procedures

(on-site separation via oil/water —
separator and the pumped to Gulf —
Coast Disposal Authority for final off —
site disposal. —

No accidents reported as a result of
explosion and fire. —

LyondellBasell will begin a formal
accident investigation on 5/18/10

D LCU

4

TDD-70-0001-10-05-02

20406.012.001.0556.01

5

5/17/10

LyondellBasell Fire

LyondellBasell will also begin calculating quantities lost due to explosion and fire. If exceed reportable quantities a formal report will be submitted to the National Response Center.

1930 All clear given to Plant Personell.

1945 START-Cobb released from the site by OSC Adams.

2015 START-Cobb arrives at the warehouse to demobilize equipment. END OF LOG BOOK.

5/17/10

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



"Outdoor writing products..."

lyondellbasell

Michael J. Godfrey, P.E., REM
Environmental Supervisor

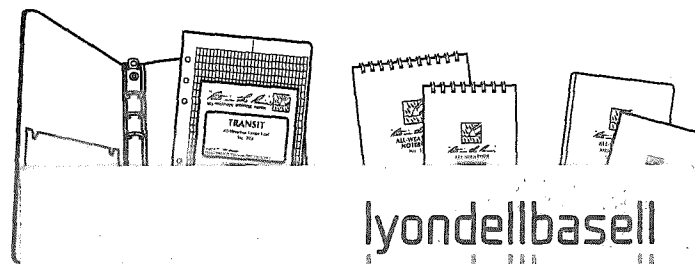
Houston Refining LP
12000 Lawndale
Houston, TX 77017
P.O. Box 2451 (77252-2451)

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Fax +1 713 321 6820
Pager +1 713 891 2138
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Manager, Regulatory Compliance

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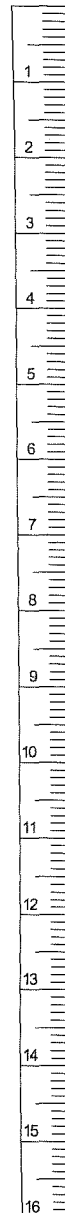
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ATTACHMENT C

POLLUTION REPORT (POLREP)

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 LyondellBasell Fire - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region VI**

Subject: **POLREP #1**
 Initial and Final POLREP - Emergency Response Activities
 LyondellBasell Fire
 A6X3
 Houston, TX
 Latitude: 29.7082390 Longitude: -95.2444050

To:
From: Adam Adams, OSC
Date: 5/18/2010
Reporting Period: 5/17/2010

1. Introduction

1.1 Background

Site Number:	Contract Number:	
D.O. Number:	Action Memo Date:	
Response Authority: CERCLA	Response Type:	Emergency
Response Lead: PRP	Incident Category:	Removal Assessment
NPL Status: Non NPL	Operable Unit:	
Mobilization Date: 5/17/2010	Start Date:	5/17/2010
Demob Date: 5/17/2010	Completion Date:	
CERCLIS ID:	RCRIS ID:	
ERNS No.:	State Notification:	
FPN#:	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

The LyondellBasell facility is located in an industrial area at 12000 Lawndale Street in Southeast Houston along the Houston Ship Channel. The facility was established in 1918.

1.1.2.1 Location

12000 Lawndale Avenue
Houston, Texas 77017

1.1.2.2 Description of Threat

At approximately 14:20 LyondellBissel experienced a fire associated with the 536 Crude Processing Unit. The fire was extinguished at approximately 15:30 and it is believed that Vacuum Gas Oil was the product that was burning.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The LyondellBasell plant/facility located at 12000 Lawndale at Highway 225 had a crude processing unit catch fire at approximately 14:20 hours. The crude processing unit takes in crude oil to begin the upgrade process to gasoline. At the time of the fire the unit was processing Vacuum Gas Oil.

2.1.2 Response Actions to Date

As a result of the fire, LyondellBasell activated emergency response personnel to fight the fire and initiated a shelter in place for plant personnel. LyondellBasell fire fighters were able to extinguish the fire by 15:30. Perimeter air monitoring was conducted by LyondellBasell personnel with no measureable VOCs at the perimeter of the facility. An "All Clear" alert was issued at approximately 19:35 allowing plant personnel to return to normal operating procedures. The fire fighting water was contained within the concrete secondary containment area and/or the surrounding storm water system.

All fire fighting water will be processed through the normal operating procedures and disposed of at Gulf Coast Waste Disposal Authority. LyondellBasell plant personnel are calculating potential released chemicals to determine if reportable quantities were exceeded. If there were any exceedances are calculated, plant personnel will notify the appropriate regulatory agencies.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

LyondellBasell is the Potentially Responsible Party for this incident.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

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2.2 Planning Section

LyondellBisell plant personnel will begin a formal accident investigation to determine the cause of the release. No further EPA response actions will be conducted at this facility relative to this incident.

2.3 Logistics Section

2.4 Finance Section

2.5 Safety Officer

2.6 Liaison Officer

2.7 Information Officer

Additional information can be obtained at www.epaosc.org/LyondellBasell.

3. Participating Entities

3.1 Unified Command

3.2 Cooperating and Assisting Agencies

Agencies that participated in the response include EPA, TCEQ, and the RP.

4. Personnel On Site

Personnel on-site during the response include EPA, TCEQ, and RP personnel.

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

Additional information can be obtained at www.epaosc.org/LyondellBasell.

6.2 Reporting Schedule

No additional POLREPs will be submitted relative to this incident.

7. Situational Reference Materials

ATTACHMENT D

TDD NO. TO-0001-10-05-02

Response Activities- REMOVAL
Funds (0001)
Weston Solutions, Inc.

! = required field

TDD Name: LyondellBasell Fire		! Period: Base Period	
! Purpose: Work Assignment Initiation		Verbal Date: 05/17/2010	
! Priority: High		! Start Date: 05/17/2010	
Overtime: Yes		! Completion Date: 11/30/2010	
! Funding Category: Removal		Invoice Unit:	
! Project/Site Name: LyondellBasell Fire		WorkArea: RESPONSE ACTIVITIES	
Project Address: 12000 Lawndale St. at HWY 225		Activity: Emergency Response	
County: Harris		Work Area Code:	
City, State: Houston, TX		Activity Code: RV	
Zip: 77252		EMERGENCY CODE: <input type="checkbox"/> KAT <input type="checkbox"/> RIT	
! SSID: A6X3		FPN:	
CERCLIS:		Performance Based: No	
Operable Unit:			
Authorized TDD Ceiling:	Cost/Fee	LOE (Hours)	
Previous Action(s):	\$0.00		
This Action:	\$10,000.00	(b) (4)	
New Total:	\$10,000.00		

Specific Elements

Description of Work:

All activities performed in support of this TDD shall be in accordance with the contract and TO PWS.

Adam Adams is the TM. Contractor shall conduct a Tier 1 response. Contractor shall document incident events and any response actions taken by PRP.

Accounting and Appropriation Information

SFO: 22

Line	DCN	IFMS	Budget/ FY	Appropriation Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RVC047	XXX	09	TCD	6A00E	302DC6C	2505	A6X3RV00	C001	\$10,000.00

Funding Summary:	Funding
Previous:	\$0.00
This Action:	\$10,000.00
Total:	\$10,000.00

Funding Category

Removal

Section

- Signed by Christopher Ruhl/R6/USEPA/US on 05/20/2010 03:37:11 PM, according to Cheng Wei Feng/s
: Christopher Ruhl **Date:** 05/20/2010

Project Officer Section - Signed by Cora Stanley/R6/USEPA/US on 05/24/2010 09:30:26 AM, according to C
PO Comments: Adam Adams is OSC.

Project Officer: Linda Carter

Date: 05/24/2010

Contracting Officer Section - Signed by Cora Stanley/R6/USEPA/US on 05/24/2010 09:30:26 AM, according

Contracting Officer: Cora Stanley

Date: 05/24/2010

Contractor Section

Contractor Contact:

Date: